

BROWN'S SCOPE MOUNT FOR ARCHERY**Description****Reference to Related Application**

This is a continuation-in-part of patent application number 10/175,170 filed
5 06/18/2002.

Background of the Invention**Field of the Invention**

The present invention relates to scope mounts for bows and, in particular, to a
three-part, fully adjustable, left-right reversible mount which attaches a Red Dot scope, or
10 any scope with weaver mounts, to a bow for archery.

Description of the Prior Art

For archery hunters at dusk and dawn the sight pins on a bow are hard to see. But
with a Red Dot scope, as long as the hunter can see the target, the hunter will be able to
see the dot in the scope. A precision scope such as the Red Dot scope requires precision
15 mounting and adjusting.

Scope mounts for archery and Weaver mounts have been the subject of earlier
patents. Of particular interest is the US Patent number 5,893,356 to Johns which discloses
a bow sight support for attachment to a bow riser. A first piece mounts to the bow and
allows a second piece to be vertically adjusted. A third piece attaches to the second and
20 allows limited horizontal and rotational motion of a user selected bracket piece. The
bracket does not have to function for a Weaver mount system. This patent also discloses
an adjustment means for variable distance shooting.

Furthermore, the US Patent number 5,495,675 to Huang shows a laser sight mounting system that is adjustable in the horizontal and vertical directions. The initial bracket is mounted to the bow back. The system allows for rotational adjustment of the laser's angle of inclination and uses dovetail grooves for most of the adjustability, but
5 does not specifically mention what grooving system attaches the laser module. In addition, the patents to Ross describe Weaver mounts. The US Patent number 4,328,624 to Ross describes a mount in relation to pistols. The design patents to Ross show drawings of Weaver-type mounts.

What is needed is a precision mount for archery sights, using Weaver type
10 mounts, which is easy to install and has fine tuning adjustability in all directions, and also possess lightweight and durable qualities.

Summary of the Invention

An object of the present invention is to provide a bow sight bracket with a fast installation time that adjusts easily requiring only one tool, a 1/8" Allen wrench.

15 Another object of the present invention is to provide reversible components so that it fits right handed or left handed bows.

An additional object of the present invention is that the three movable components may accommodate many combinations of modifications in three directions.

One more object of the present invention is that it is fabricated of machined
20 aluminum so that it is lightweight.

An essential object of the present invention is that it holds a Red Dot Scope.

A corollary object of the present invention is that it provides a number of different attachment features to accommodate attachment to a variety of bows and to receive a wide variety of scopes.

Yet one more object of the present invention is to provide mating V-grooves
5 between two of the components, transverse grooves in one component to mate with longitudinal grooves in the other, to assure perpendicular alignment of the two components, prevent slippage or movement there between, and allow for instant rapid interconnection and automatic alignment of the two components.

A further object of the present invention is the safety of the user and of the
10 invention itself, since it is meant to be concealed between the bow riser and the bow string, so that when the user carries it up into a tree stand, the equipment won't hit any tree limbs that might cause the bow to be dropped or the user to lose his balance.

An added object of the present invention is that it is made of thick durable components secured together to make the sight bracket very strong.

15 In brief, a bracket that mounts a scope, using weaver mounts, to a bow for archery. The mount of the present invention is different from other mounts and easier to use. The mount is a three piece, easy to install, easy to adjust bracket. Part 1 is attached to the bow on the inside or outside of the riser (making it usable for right or left handed archers). Part 2 is attached to part 1 with 10-24 button head cap screws. Part 3 attaches to
20 part 2 with 10-24 button head screws with lock nuts on bottom. Part 2 has transverse V-grooves and Part 3 has mating longitudinal grooves for instant guaranteed secure

automatic alignment and instant interconnection of the two parts. The scope attaches to part 3. Part 2 and 3 can be adjusted right or left and up and down to sight in the scope.

The brackets are mounted to the bow riser of a compound bow so that the scope is between the bow riser and the bow string. The brackets allow horizontal and vertical
5 adjustment of the scope.

An advantage of the present invention is that it installs quickly, in approximately ten minutes, and adjusts easily.

Another advantage of the present invention is that it fits both right and left handed bows.

10 An additional advantage of the present invention is that it accommodates a large variety of adjustments.

One more advantage of the present invention is that it is lightweight and easy to carry to remote hunting sites and into tree stands.

A further advantage of the present invention is that it assures perpendicular
15 alignment of the components.

A corollary advantage of the present invention is that it prevents slippage or movement between components.

Yet another advantage of the present invention is that it allows for instant rapid interconnection and automatic alignment of the components.

20 A further advantage of the present invention is that the sight bracket does not protrude from the bow, allowing it to be protected from catching on tree branches when climbing into tree stands or moving through heavily forested areas.

Yet another advantage of the present invention is its durability. It is very strong to resist breaking and is built to last the life of the bow.

Still another advantage of the present invention is that it is compatible with all bow types.

5 Another related advantage of the present invention is that it does not add significant weight to the bow.

Brief Description of the Drawings

These and other details of my invention will be described in connection with the accompanying drawings, which are furnished only by way of illustration and not in
10 limitation of the invention, and in which drawings:

FIG. 1 is an elevational view from the archer's perspective showing a scope mounted on the bow using Brown's scope mount for archery;

FIG. 2 is a perspective view showing the invention of claim 1 mounted on the bow for a right-handed archer;

15 FIG. 3 is a perspective view showing the invention of claim 1 mounted on the bow for a left-handed archer;

FIG. 4 is a top plan view showing the three elements of the invention aligned for mounting on the bow;

FIG. 5 is a perspective view showing a preferred embodiment of the invention
20 with secure universal fittings mounted on the bow for a right-handed archer;

FIG. 6 is an elevational view from the archer's perspective showing a scope mounted on the bow using the preferred embodiment of FIG. 5 of Brown's scope mount for archery.

5 **Best Mode for Carrying Out the Invention**

In FIGS. 1-6, an adjustable mount for archery bow sights using a Weaver type mount is capable of mounting to both a left and a right side of a bow riser 50 for both right-handed and left-handed archers.

In FIGS. 1-6, a first bracket 20 is comprised of a bow mounting portion 26
10 capable of attaching alternately to a right side and a left side of a bow riser 50 using at least two connectors, such as screws, through vertically aligned holes 22 to create a rigid mount. A vertical bracket receiving portion 25 is spaced apart from the bow mounting portion by a horizontal arm 24. The bracket receiving portion 25 has a pair of vertical parallel slots 21 formed through the bracket 20. The right sided mount is shown in FIG.
15 2 for right-handed archers, and, the left sided mount is shown in FIG. 3 for left-handed archers.

In FIGS. 1-6, a second bracket 30 is capable of being adjustably mounted to the vertical bracket receiving portion 25 of the first bracket 20, alternately to a left side (FIG. 2) and a right side (FIG. 3) of the first bracket 20, by an adjustable connector, such
20 as a bolt through holes 32 in each of the two vertical slots 21, in the vertical bracket receiving portion 25 of the first bracket 20. The perpendicular end block 35 assures perpendicular alignment of the second bracket with the first. The second bracket 30 is

capable of being vertically adjusted relative to the first bracket 20 by sliding in the slots 21. The second bracket 30 possess a horizontal bracket receiving portion 34 having a pair of horizontal spaced parallel slots 31 formed therethrough and, in the preferred embodiment of FIGS. 5 and 6, a series of transverse V-shaped grooves 36.

5 In FIGS. 1-6, a third bracket 40 is capable of being adjustably mounted to the horizontal bracket receiving portion 34 of the second bracket 30 by an adjustable connector such as a bolt or screw through two of the holes 43 and into each of the two horizontal slots 31 of the second bracket 30. The third bracket 40 is capable of being horizontally adjusted relative to the second bracket 30 by sliding in the slots 31. In the
10 preferred embodiment of FIGS. 5 and 6, longitudinal V-shaped grooves 45 in the third bracket 40A mate with the transverse V-shaped grooves 36 of the second bracket 30A so that the two brackets are instantly aligned and maintain in a perpendicular alignment. Horizontal adjustment of the third bracket 40A relative to the third bracket 30A of the preferred embodiment is accomplished by loosening the connecting bolts or screws and
15 moving the third bracket to mate with different grooves in the second bracket and tightening the bolts or screws. The third bracket 40 and 40A possesses a bow sight receiving portion with a pair of V-shaped slotted slide means 44 and transverse slots 41 capable of receiving a bow sight 70 mounted adjustably thereon. The third bracket 40 is capable of receiving an archery scope 70 having a Weaver type connection. A series of
20 three holes 43A allow attachment of the third bracket 40A to the second bracket 30A in different positions. A pair of larger end holes 43B in the third bracket 40A enable attachment of a variety of different scopes to the braceket.

The brackets 20, 30, 30A, 40 and 40A are machined from machinable aluminum, nylon, other machinable material.

It is understood that the preceding description is given merely by way of illustration and not in limitation of the invention and that various modifications may be
5 made thereto without departing from the spirit of the invention as claimed.